

VOLUME 22, 1998

CONTENTS INDEX

Volume 22 Number 1

January/February 1998

Full-length Papers

- | | | |
|--|-----|--|
| <i>P. Roch, P. Ville and E. L. Cooper</i> | 1 | Characterization of a 14 kDa plant-related serine protease-inhibitor and regulation of cytotoxic activity in earthworm coelomic fluid |
| <i>I. Eue, E. Kauschke, W. Mohrig and E. L. Cooper</i> | 13 | Isolation and characterization of earthworm hemolysins and agglutinins |
| <i>S. K. Malham, N. W. Runham and C. J. Secombes</i> | 27 | Lysozyme and antiprotease activity in the lesser octopus <i>Eledone cirrhosa</i> (Lam.) (cephalopoda) |
| <i>B. J. Davids and T. P. Yoshino</i> | 39 | Integrin-like RGD-dependent binding mechanism involved in the spreading response of circulating molluscan phagocytes |
| <i>L. H. Bramble and R. S. Anderson</i> | 55 | A comparison of the chemiluminescent response of <i>Crassostrea virginica</i> and <i>Morone saxatilis</i> phagocytes to zymosan and viable <i>Listonella anguillarum</i> |
| <i>J. H. W. M. Rombout, P. H. M. Joosten, M. Y. Engelsma, A. P. Vos, N. Taverne and J. J. Taverne-Thiele</i> | 63 | Indications for a distinct putative T cell population in mucosal tissue of carp (<i>Cyprinus carpio</i> L.) |
| <i>S. Tozaki and S. Tochinai</i> | 79 | Effects of cyclosporin A on skin graft rejection in <i>Xenopus</i> |
| <i>A. Koniski and N. Cohen</i> | 91 | Axolotl (<i>Ambystoma mexicanum</i>) lymphocytes produce and are growth-inhibited by transforming growth factor-beta |
| <i>L. L. Wells, V. K. Lowry, J. R. DeLoach and M. H. Kogut</i> | 103 | Age-dependent phagocytosis and bactericidal activities of the chicken heterophil |
| <i>G. Gunnes, C. McL. Press, A. Tverdal and T. Landsverk</i> | 111 | Compartments within the lymph node cortex of calves and adult cattle differ in the distribution of leukocyte populations: an immunohistochemical study using computer-assisted morphometric analysis |
| | 125 | Ad Hoc Reviewers |
| | 127 | Abstracts of the 9th Scientific Meeting of the Japanese Association for Developmental and Comparative Immunology (JADCI) |

Volume 22 Number 2

March/April 1998

Full-length Papers

- S. Tunkijjanukij and J. A. Olafsen* 139 Sialic acid-binding lectin with anti-bacterial activity from the horse mussel: further characterization and immunolocalization
- K. Nakayama and T. Maruyama* 151 Differential production of active oxygen species in photo-symbiotic and non-symbiotic bivalves
- D. L. Evans, J. H. Leary Jr, III, P. Nadella and L. Jaso-Friedmann* 161 Evidence for antigen recognition by nonspecific cytotoxic cells: initiation of ^3H -thymidine uptake following stimulation by a protozoan parasite and homologous cognate synthetic peptide
- A. J. Ainsworth and B. Boyd* 173 Intracellular signaling events in superoxide generation and adhesion of channel catfish, *Ictalurus punctatus* rafinesque, neutrophils to the extracellular matrix protein fibrinogen
- V. Lund and J. A. Olafsen* 185 A comparative study of pentraxin-like proteins in different fish species
- U. Fischer, M. Ototake and T. Nakanishi* 195 In vitro cell-mediated cytotoxicity against allogeneic erythrocytes in ginbuna crucian carp and goldfish using a non-radioactive assay
- A. W. Dodds, S. L. Smith, R. P. Levine and A. C. Willis* 207 Isolation and initial characterisation of complement components C3 and C4 of the nurse shark and the channel catfish
- T. L. Horton, P. Ritchie, M. D. Watson and J. D. Horton* 217 Natural cytotoxicity towards allogeneic tumour targets in *Xenopus* mediated by diverse splenocyte populations
- T. L. Koppenheffer, K. D. Spong and H. M. Falvo* 231 The complement system of the marsupial *Monodelphis domestica*
- K.-H. Nam, H. Akari, K. Terao, H. Ohto, S. Itagaki and Y. Yoshikawa* 239 Age-dependent remodeling of peripheral blood CD4⁺ CD8⁺ T lymphocytes in cynomolgus monkeys

Volume 22 Number 3

May/June 1998

*Special Issue: Ontogeny and Phylogeny of Commitment
and Differentiation in the Hematopoietic and Immune System*

Full-length Papers

- | | | |
|---|-----|--|
| <i>F. Dieterlen-Lièvre and
A. Cumano</i> | 249 | Editorial |
| <i>N. S. Trede and L. I. Zon</i> | 253 | Development of T-cells during fish embryogenesis |
| <i>J. B. Turpen</i> | 265 | Induction and early development of the hematopoietic and immune systems in <i>Xenopus</i> |
| <i>D. Dunon, N. Allioli, O. Vainio,
C. Ody and B. A. Imhof</i> | 279 | Renewal of thymocyte progenitors and emigration of thymocytes during avian development |
| <i>A. L. Medvinsky and
E. A. Dzierzak</i> | 289 | Development of the definitive hematopoietic hierarchy in the mouse |
| <i>J. A. Garcia-Porrero, A. Manaia,
J. Jimeno, L. L. Lasky,
F. Dieterlen-Lièvre and
I. E. Godin</i> | 303 | Antigenic profiles of endothelial and hemopoietic lineages in murine intra-embryonic hemogenic sites |
| <i>H. Yoshida, N. Takakura,
M. Hirashima, H. Kataoka,
K. Tsuchida, S. Nishikawa and
S.-I. Nishikawa</i> | 321 | Hematopoietic tissues, as a playground of receptor tyrosine kinases of the PDGF-receptor family |
| <i>R. Auerbach, S.-J. Wang,
D. Yu, B. Gilligan and
L.-s. Lu</i> | 333 | Role of endothelium in the control of mouse yolk sac stem cell differentiation |
| <i>K. Lucas, D. Vremec, L. Wu and
K. Shortman</i> | 339 | A linkage between dendritic cell and T-cell development in the mouse thymus: the capacity of sequential T-cell precursors to form dendritic cells in culture |
| <i>H.-R. Rodewald and C. Haller</i> | 351 | Antigen-receptor junctional diversity in growth-factor-receptor mutant mice |
| <i>K. L. Anderson, N. C. Moore,
D. E. J. McLoughlin,
E. J. Jenkinson and J. J. T. Owen</i> | 367 | Studies on thymic epithelial cells <i>in vitro</i> |
| <i>J.-C. Weill and C.-A. Reynaud</i> | 379 | Galt versus bone marrow models of B cell ontogeny |

Volume 22 Number 4

July/August 1998

Full-length Papers

- J. A. Mackintosh, A. A. Gooley, P. H. Karuso, A. J. Beattie, D. R. Jardine and D. A. Veal* 387 A gloverin-like antibacterial protein is synthesized in *Helicoverpa armigera* following bacterial challenge
- M. A. Ryczyn, M. R. Wilson, L. W. Clem and N. W. Miller* 401 Evidence for Jak-stat interaction in channel catfish lymphoid cells
- A. E. F. Van Nerom, R. Ducatelle and F. Haesebrouck* 407 Oxygen radicals and nitric oxide production by turkey respiratory macrophages
- N. F. Neumann, D. Barreda and M. Belosevic* 417 Production of a macrophage growth factor(s) by a goldfish macrophage cell line and macrophages derived from goldfish kidney leukocytes
- T. Itou, T. Iida and H. Kawatsu* 433 Evidence for the existence of cytochrome *b558* in fish neutrophils by polyclonal anti-peptide antibody
- A. M. O'Dowd, A. E. Ellis and C. J. Secombes* 439 Binding of immune complexes to Atlantic salmon peripheral blood leucocytes
- P. Grant, R. H. Clothier, R. O. Johnson and L. N. Ruben* 449 *In situ* lymphocyte apoptosis in larval *Xenopus laevis*, the South African clawed toad
- K. G. Gould, M. A. Akinbami and D. R. Mann* 457 Effect of neonatal treatment with a gonadotropin releasing hormone antagonist on developmental changes in circulating lymphocyte subsets: a longitudinal study in male rhesus monkeys

Volume 22 Number 5/6

September–December 1998

Full-length Papers

- M. Wiens, C. Koziol, R. Batel and W. E. G. Müller* 469 Phenylalanine hydroxylase from the sponge *Geodia cydonium*: implication for allorecognition and evolution of aromatic amino acid hydroxylases
- L. Ballarin, F. Cima and A. Sabbadin* 479 Phenoloxidase and cytotoxicity in the compound ascidian *Botryllus schlosseri*
- P. N. S. Rodrigues, T. T. Hermesen, A. van Maanen, A. J. Taverne-Thiele, J. H. W. M. Rombout, B. Dixon and R. J. M. Stet* 493 Expression of *MhcCyca* Class I and Class II molecules in the early life history of the common carp (*Cyprinus carpio* L.)
- M. B. Schrøder, A. J. Villena and T. Ø. Jørgensen* 507 Ontogeny of lymphoid organs and immunoglobulin producing cells in Atlantic cod (*Gadus morhua* L.)
- I. Paul, C. Mandal and C. Mandal* 519 Effect of environmental pollutants on the C-reactive protein of a freshwater major carp, *Catla catla*
- M. K. Frøystad, M. Rode, T. Berg and T. Gjøen* 533 A role for scavenger receptors in phagocytosis of protein-coated particles in rainbow trout head kidney macrophages
- F. A. A. Weyts, G. Flik, J. H. W. M. Rombout and B. M. L. Verburg-van Kemenade* 551 Cortisol induces apoptosis in activated B cells, not in other lymphoid cells of the common carp, *Cyprinus carpio* L.
- F. A. A. Weyts, G. Flik and B. M. L. Verburg-van Kemenade* 563 Cortisol inhibits apoptosis in carp neutrophilic granulocytes
- Z. Zupanovic, G. Lopez, A. Hyatt, B. J. Shiell and A. J. Robinson* 573 An improved enzyme linked immunosorbent assay for detection of anti-ranavirus antibodies in the serum of the giant toad (*Bufo marinus*)
- S. J. Jozefowski and B. Plytycz* 587 Characterization of β -adrenergic receptors in fish and amphibian lymphoid organs

-
- | | | |
|--|-----|---|
| <i>J. Robert and N. Cohen</i> | 605 | Ontogeny of CTX expression in <i>Xenopus</i> |
| <i>D. J. Caldwell, D. Y. Caldwell, A. P. McElroy, J. G. Manning and B. M. Hargis</i> | 613 | Basp-induced suppression of mitogenesis in chicken, rat and human BPL |
| <i>J. Chodosh, R. E. Nordquist and R. C. Kennedy</i> | 621 | Comparative anatomy of mammalian conjunctival lymphoid tissue: a putative mucosal immune site |
| | I | Index to Volume 22 |

